Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-7. (Canceled)
- 8. (Currently Amended) In a wireless communication system, a method comprising: estimating a channel condition over a first time window;
 - comparing the estimated channel condition to a first threshold value;

determining a first transmission rate for transmission of quality messages and a second

transmission rate for transmission of differential indicators based on the comparison;

transmitting quality messages at the first transmission rate; and

transmitting differential indictors independently of quality messages at the second

transmission rate, wherein the second transmission rate is greater than the first transmission rate.

9. (Original) The method as in claim 8, wherein the first time window is dynamically

adjusted based on operation of the system.

10. (Original) The method as in claim 8, further comprising:

calculating an average channel condition; and

calculating variance of the channel condition.

11. (Currently Amended) A wireless apparatus, comprising:

means for estimating a channel condition over a first time window;

means for comparing the estimated channel condition to a first threshold value;

means for determining a first transmission rate for transmission of quality messages and a

second transmission rate for transmission of differential indicators based on the comparison;

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means for transmitting quality messages at the first transmission rate; and means for transmitting differential indictors independently of quality messages at the second transmission rate, wherein the second transmission rate is greater than the first transmission rate.

12. (Currently Amended) In a wireless communication system for processing voice communications and packet-switched communications, a base station comprising:

receive circuitry operative to receive signals on a reverse link, including [[a]] quality messages with [[a]] parity checks at a first rate, and differential indicators at a second rate, [[the]] each quality message periodically providing a quality metric of a forward link, wherein the differential indicators track the quality metric between successive quality messages;

a memory storage unit operative to store [[a]] <u>each</u> quality message received on the reverse link; and

a differential analyzer to update <u>each of</u> the <u>received</u> quality messages stored in the memory storage unit in response to the differential indicators and the parity check, wherein the <u>second rate is greater than the first rate</u>.

13. (Previously Presented) A wireless apparatus, comprising:

processing unit, operative for executing computer-readable instructions; and
a memory storage unit storing a plurality of computer-readable instructions for:

generating quality messages at a first frequency and differential indicators at a second frequency, the quality messages providing information on the quality of a communication link, wherein the differential indicators track a quality metric between successive quality messages and wherein the second frequency is greater than the first frequency;

generating a parity check for each of the quality messages; and transmitting the quality messages at the first frequency and differential

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indicators at the second frequency.

14. (Canceled)

15. (Currently Amended) A wireless apparatus, comprising:

processing unit, operative for executing computer-readable instructions; and

a memory storage unit adapted to store a plurality of computer-readable instructions for:

estimating a channel condition over a first time window;

comparing the estimated channel condition to a first threshold value;

determining a first transmission rate for transmission of quality messages and a

second transmission rate for transmission of differential indicators based on the

comparison;

transmitting quality messages at the first transmission rate; and

transmitting differential indicators at the second transmission rate independently

of quality messages, wherein the second transmission rate is greater than the first

transmission rate.

16. (Currently Amended) In a wireless communication system, the wireless communication

system supporting a plurality of carriers, a method comprising:

determining an average channel condition among the plurality of carriers;

comparing the average channel condition to a first threshold value;

determining a first transmission rate for transmission of quality messages and a second

transmission rate for the transmission of differential indicators based on the comparison;

transmitting quality messages at the first transmission rate; and

transmitting differential indicators at the second transmission rate independently of

quality messages, wherein the second transmission rate is greater than the first transmission rate.

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17. (Original) The method as in claim 16, further comprising:

assigning a weight to each of the plurality of carriers, wherein the average channel condition is a weighted average.

18. (Previously Presented) A wireless apparatus, comprising:

processing unit, operative for executing computer-readable instructions; and a memory storage unit storing a plurality of computer-readable instructions for:

determining a best channel condition associated with a first frequency; and generating a quality message, the quality message including a quality indicator and a frequency indicator, the frequency indicator identifying the first frequency, wherein the frequency indicator is a pointer to select the first frequency from a plurality of predetermined frequencies; and

generating differential indicators separately from the quality message.

- 19. (Canceled)
- 20. (Currently Amended) A wireless apparatus, comprising:

a quality measurement unit configured to estimate a channel condition over a first time window;

a differential analyzer configured to compare the estimated channel condition to a first threshold value; and

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a controller configured to determine a first transmission rate for transmission of quality

messages and a second transmission rate for transmission of differential indicators based on the

comparison, the differential analyzer further configured to generate quality messages at the first

transmission rate, the differential analyzer further configured to transmit differential indicators at

the second transmission rate independently of quality messages, wherein the second transmission

rate is greater than the first transmission rate.

21. (Previously Presented) The wireless apparatus of claim 20, wherein the first time

window is dynamically adjusted based on operation of the system.

22. (Previously Presented) The wireless apparatus of claim 20, wherein the controller is

configured to:

calculate an average channel condition; and

calculate a variance of the channel condition.

23. (Previously Presented) The wireless apparatus of claim 11, further comprising:

means for dynamically adjusting the first window based on operation of the system.

24. (Previously Presented) The wireless apparatus of claim 11, further comprising:

means for calculating an average channel condition; and

means for calculating variance of the channel condition.

25-27. (Canceled)

28. (Currently Amended) A tangible non-transitory storage medium having stored thereon

processor-executable software instructions configured to cause a processor to perform steps

comprising:

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estimating a channel condition over a first time window on a system;

comparing the estimated channel condition to a first threshold value;

determining a first transmission rate for transmission of quality messages and a second

transmission rate for transmission of differential indicators based on the comparison;

transmitting quality messages at the first transmission rate; and

transmitting differential indictors at the second transmission rate independently of quality

messages, wherein the second transmission rate is greater than the first transmission rate.

29. (Currently Amended) The tangible non-transitory storage medium of claim 28, wherein

the tangible storage medium has stored thereon processor-executable software instructions

configured to cause a processor to perform further steps comprising dynamically adjusting the

first time window based on operation of the system.

30. (Currently Amended) The tangible non-transitory storage medium of claim 28, wherein

the tangible storage medium has stored thereon processor-executable software instructions

configured to cause a processor to perform further steps comprising:

calculating an average channel condition; and

calculating variance of the channel condition.

31. (Previously Presented) In a wireless communication system, a method comprising:

generating quality messages at a first frequency, the quality messages providing

information on the quality of a communication link;

generating a parity check for each of the quality messages, and

generating differential indicators at a second frequency, the differential indicators

indicating changes in the quality of the communication link, wherein the second frequency is

greater than the first frequency.

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32. (Previously Presented) The method of claim 31, wherein each quality message includes

carrier to interference information of a received signal at a receiver.

33. (Previously Presented) The method of claim 31, wherein each differential indicator is at

least one bit.

34. (Previously Presented) The method of claim 31, wherein the quality messages are

transmitted via a gated channel.

35. (Previously Presented) The method of claim 31, wherein the differential indicators are

transmitted via a continuous channel.

36. (Previously Presented) The method of claim 31, comprising:

estimating a channel condition over a first time window;

comparing the estimated channel condition to a first threshold value;

determining a transmission rate for transmission of quality messages based on the

comparison; and

transmitting quality messages at the transmission rate.

37. (Previously Presented) The method of claim 36, wherein the first time window is

dynamically adjusted based on operation of the system.

38. (Previously Presented) The method of claim 36, further comprising:

calculating an average channel condition; and

calculating variance of the channel condition.

39. (Previously Presented) The method of claim 31, comprising:

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determining an average channel condition among a plurality of carriers;

comparing the average channel condition to a first threshold value;

determining a transmission rate for transmission of quality messages based on the

comparison; and

transmitting quality messages at the transmission rate.

40. (Previously Presented) The method of claim 39, further comprising:

assigning a weight to each of the plurality of carriers, wherein the average channel

condition is a weighted average.

41. (Previously Presented) A remote station apparatus comprising:

a quality measurement unit for iteratively measuring link quality of a communications

link;

a quality message processing unit for generating a quality message at a first frequency

based on the measured link quality and for generating a parity check corresponding to the quality

message; and

a differential analyzer for determining changes in the measured link quality and for

generating differential indicators at a second frequency, the differential indicators indicating

changes in the quality of the communication link, wherein the second frequency is greater than

the first frequency.

42. (Previously Presented) The remote station of claim 41, wherein the link quality is

measured as carrier to interference of a received signal.

43. (Previously Presented) The remote station of claim 41, comprising:

means for estimating a channel condition over a first time window;

means for comparing the estimated channel condition to a first threshold value;

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means for determining a transmission rate for transmission of quality messages based on

the comparison; and

means for transmitting quality messages at the transmission rate.

44. (Previously Presented) A base station comprising:

receive circuitry operative to receive signals on a reverse link of a wireless

communication system for processing voice communications and packet-switched

communications, the signals including a quality message with a parity check at a first rate, and

differential indicators at a second rate, the quality message periodically providing a quality metric

of a forward link, wherein the differential indicators track the quality metric between successive

quality messages and wherein the second rate is greater than the first rate;

a memory storage unit operative to store a quality message received on the reverse link;

and

a differential analyzer to update the quality message stored in the memory storage unit in

response to the differential indicators and the parity check.

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